

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275525

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2680.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

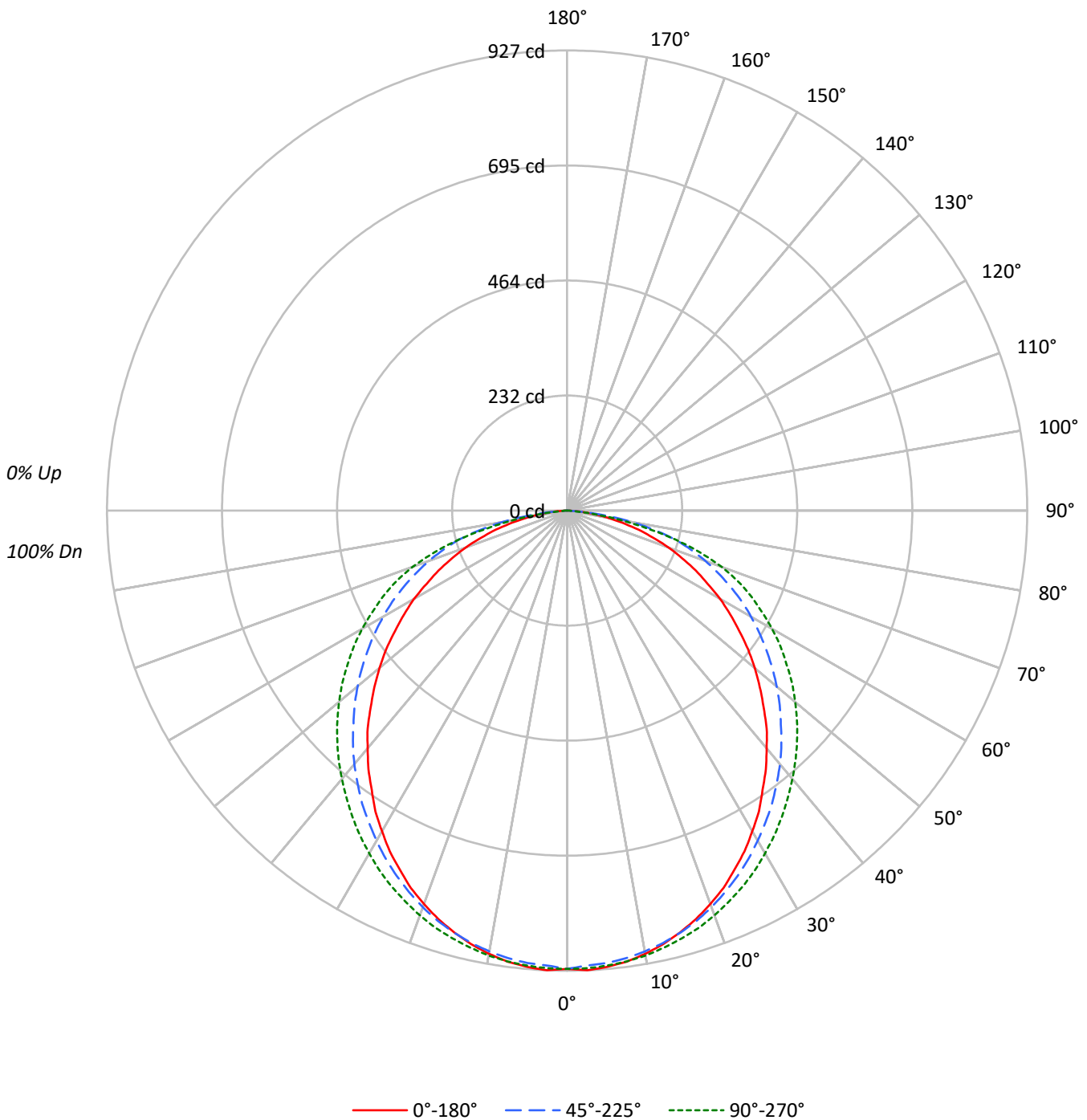
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2485	2485	2485
5°	2492	2471	2486
10°	2477	2464	2487
15°	2450	2452	2486
20°	2415	2435	2485
25°	2369	2411	2482
30°	2317	2386	2477
35°	2256	2366	2476
40°	2196	2343	2479
45°	2128	2317	2493
50°	2066	2307	2509
55°	1988	2299	2532
60°	1917	2303	2567
65°	1819	2309	2606
70°	1707	2327	2605
75°	1547	2349	2355
80°	1269	2029	1677
85°	942	960	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	3.3
10°-20°	249.6	9.3
20°-30°	376.0	14.0
30°-40°	451.1	16.8
40°-50°	470.2	17.5
50°-60°	435.3	16.2
60°-70°	351.7	13.1
70°-80°	214.5	8.0
80°-90°	44.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	712.9	26.6
0°-40°	1164.0	43.4
0°-60°	2069.6	77.2
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	923	920	915	922	920	88
15°	880	880	880	892	892	248
25°	798	803	812	832	836	368
35°	687	697	720	746	754	430
45°	559	576	609	643	655	432
55°	424	446	490	528	540	380
65°	286	314	363	399	409	282
75°	149	182	226	230	226	156
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.3	923.3	923.3	923.3	923.3
2.5°	926.9	923.9	917.3	923.9	922.7
5°	922.7	920.3	914.9	921.5	920.3
7.5°	916.7	914.3	909.5	917.3	916.1
10°	906.5	905.3	901.8	910.7	910.1
12.5°	894.6	894.0	892.2	902.4	901.8
15°	879.6	880.2	880.2	892.2	892.2
17.5°	862.9	864.1	866.5	879.6	881.4
20°	843.2	845.6	850.4	865.3	867.7
22.5°	822.9	824.7	831.8	849.8	852.2
25°	797.8	802.6	812.1	832.4	836.0
27.5°	773.9	778.1	791.2	812.1	818.1
30°	745.8	752.4	767.9	790.6	797.2
32.5°	718.9	726.1	744.0	770.3	776.3
35°	686.6	697.4	720.1	746.4	753.6
37.5°	657.3	667.5	693.2	721.9	730.2
40°	625.1	637.6	666.9	697.4	705.7
42.5°	595.2	607.1	638.8	669.9	681.2
45°	559.3	576.1	608.9	643.0	655.0
47.5°	526.5	543.2	580.9	617.3	628.1
50°	493.6	511.5	551.0	588.6	599.4
52.5°	459.5	478.7	521.1	558.7	571.3
55°	423.7	445.8	490.0	528.3	539.6
57.5°	389.6	412.3	459.5	498.4	509.7
60°	356.2	379.5	427.9	464.9	476.9
62.5°	319.1	346.6	396.8	433.2	442.2
65°	285.6	313.7	362.7	399.2	409.3
67.5°	250.4	280.9	329.9	363.3	372.9
70°	216.9	248.6	295.8	326.9	331.1
72.5°	181.1	213.3	261.1	280.9	280.9
75°	148.8	181.7	225.9	229.5	226.5
77.5°	113.5	150.0	178.7	171.5	164.3
80°	81.9	117.7	130.9	117.7	108.2
82.5°	55.0	85.5	78.9	62.7	55.6
85°	30.5	45.4	31.1	17.3	12.5
87.5°	11.4	10.2	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)